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APPLICATION N	O. I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/058,306		01/30/2002	Syuji Mayama	111857 7355	
25944	7590	12/24/2003		EXAMINER	
	BERRIDO	GE, PLC	NGUYEN, MINH T		
P.O. BOX 19928 ALEXANDRIA, VA 22320				ART UNIT PAPER NUMBER	
	,			2016	

DATE MAILED: 12/24/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/058,306	MAYAMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Minh Nguyen	2816				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1)⊠ Responsive to communication(s) filed on <u>11/10/03</u> .						
ra) ☐ This action is <b>FINAL</b> . 2b) ☐ This action is non-final.						
3)⊠ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-15</u> is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examine	г.					
10)⊠ The drawing(s) filed on <u>30 April 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. §§ 119 and 120						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> <li>13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet.</li> <li>37 CFR 1.78.</li> <li>a) The translation of the foreign language provisional application has been received.</li> <li>14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)		(PTO-413) Paper No(s) Patent Application (PTO-152)				

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**DETAILED ACTION** 

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in

37 CFR 1.17(e), was filed in this application after final rejection. Since this application is

eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114. Applicant's submission filed on 11/10/03 has been entered.

Claim Objections

2. Claims 1, 9 and 14-15 are objected to because of the following informalities:

In claim 1, line 8, "coupled to a third power supply voltage" should be changed to -wherein the control signal supply circuit coupled to a third power supply voltage -- to avoid
confusing for the reason that it is unclear whether the load control semiconductor switching
device or the control signal supply circuit being coupled to a third power supply voltage,

line 15, "the control terminal" should be changed to -- the control terminal of the drive control semiconductor switching device -- to avoid antecedent basis problem, i.e., line 5, the load control semiconductor switching device also has a control terminal.

In claim 9, line 5, --; -- should be inserted after "control terminal".

In claim 14, line 6, "coupled to a third power supply voltage" should be changed to -- wherein the control signal supply means coupled to a third power supply voltage -- to avoid

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confusing for the reason that it is unclear whether the load control semiconductor switching device or the control signal supply circuit being coupled to a third power supply voltage,

line 12, "the control terminal" should be changed to -- the control terminal of the drive control switching means -- to avoid antecedent basis problem, i.e., line 5, the switching means also has a control terminal.

In claim 15, line 12, "the load control semiconductor switching device" should be changed to -- a load control semiconductor switching device -- to avoid antecedent basis problem.

Appropriate correction is required.

## Allowable Subject Matter

3. Claims 1-15 are allowed after the objections noted above are overcome.

Claims 1-2 are allowed because the prior art of record fails to disclose or suggest the inclusion of a drive control switching device and a voltage suppressing circuit in the drive control circuit as recited in claim 1.

Claims 3-13 are allowed for the reasons noted in the previous Office Action.

Claims 14-15 are allowed for the same reason noted in claim 1.

## Conclusion

4. This application is in condition for allowance except for the formal matters noted herein above.

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Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Nguyen whose telephone number is 703-306-9179. The examiner can normally be reached on Monday, Tuesday, Thursday, Friday 7:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 703-308-4876. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

12/19/03

Minh Nguyen Primary Examiner Art Unit 2816